

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- Sub C13
1. (Currently Amended) A method for using a phased learning approach for determining closest of s multiple content serving sites to a fixed location in a computer network including:
- in a setup phase:
- storing data as to transit times of each of the content serving sites in a table;
- in an execution phase:
- receiving a Domain Name System (DNS) request from said fixed location;
- determining a response time for each of n fastest content serving sites and m other content serving sites, said n fastest content serving sites chosen by using said data and choosing the n content serving sites with lowest transit times, said m other content serving sites chosen by selecting new content serving sites as well as randomly selecting old content serving sites, wherein n is less than s ;
- sending queries to each of the n fastest content serving sites and m other content serving sites, timing said queries so that they arrive at each of the n fastest content serving sites and m other content serving sites at the same time by using said response time for each of the n fastest content serving sites and m other content serving sites;
- receiving data from said fixed location as to the transit times of each of the n fastest content serving sites and m other content serving sites; and
- storing said data in said table.
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2. (Previously Presented) The method of claim 1, wherein said setup phase includes:
receiving a Domain Name System (DNS) request from said fixed location;
determining a response time for each of the content serving sites;
sending queries to each of the content serving sites, timing said queries so that they arrive at each of the content serving sites at the same time by using said response time for each of the content serving sites;

receiving data from said fixed location as to the transit times of each of the content serving sites;

storing said data in a table;

3. (Previously Presented) The method of claim 2, wherein said determining the response time for each of the content serving sites includes:
pinging each of the content serving sites;
receiving a reply from each of the content serving sites; and
determining the response time for each of the content serving sites by computing the difference in time from said pinging to said receiving a reply for each of the content serving sites.

4. (Previously Presented) The method of claim 1, wherein said determining the response time for each of n fastest content serving sites and m other content serving sites includes:
pinging each of n fastest content serving sites and m other content serving sites;
receiving a reply from each of n fastest content serving sites and m other content serving sites; and

determining the response time for each of n fastest content serving sites and m other content serving sites by computing the difference in time from said pinging to said receiving a reply for each of said n fastest content serving sites and m other content serving sites.

5. (Previously Presented) The method of claim 1, wherein transit time is the time it takes a content serving site to send a packet to said fixed location after receiving a query.

6. (Original) The method of claim 1, wherein said data includes at least one record, said record including a transit time, a network address for said fixed location, and a network address for a content serving site, said transit time being the transit time between said fixed location and said content serving site.

7. (Previously Presented) The method of claim 2, wherein said sending queries to each of the content serving sites includes:

querying each of the content serving sites in order of their response times, longest response time first, setting a delay for a query for a particular content serving site from a time of the query to the content serving site with the longest response time as one half of said particular content serving site's response time.

8. (Original) The method of claim 1, wherein said sending queries to each of the n fastest content serving sites and m other content serving sites includes:

querying each of said content serving sites n fastest content serving sites and m other content serving sites in order of their response times, longest response time first, setting a delay for a query for a particular content serving site from the time the query to said n fastest content serving site or m other content serving site with the longest response time as one half of said particular content serving site's response time.

9. (Original) The method of claim 1, wherein n is 3 and m is 2.

B' 10. (Original) The method of claim 1, wherein n may be varied based on stability of the computer network.

11. (Original) The method of claim 1, wherein n may be varied based on a rate of change of said content serving sites making up n content serving sites.

12. (Original) The method of claim 1, wherein said setup phase occurs when the computer network is first set up.

13. (Original) The method of claim 1, wherein said execution phase occurs when the computer network is operating normally.

14. (Previously Presented) An apparatus for using a phased learning approach for determining closest of multiple content serving sites to a fixed location in a computer network including:

a Domain Name System (DNS) request receiver coupled to the fixed location;

a response time determiner coupled to said DNS request receiver and coupled to the content serving sites;

a query sender coupled to said response time determiner and coupled to the content serving sites;

a data receiver coupled to the fixed location;

a memory coupled to said query sender; and

a data storer coupled to said data receiver and coupled to said memory.

15. (Original) The apparatus of claim 14, wherein said response time determiner includes an n fastest content serving site chooser and an m other content serving site chooser.

16. (Original) The apparatus of claim 14, wherein said query sender includes a query timer.

17. (Original) The apparatus of claim 14, wherein said response time determiner includes a pinger and a reply receiver.

18. (Original) The apparatus of claim 14, wherein said query sender includes a response time orderer.

19. (Original) The apparatus of claim 14, further including a phase determiner coupled to said response time determiner, said query sender, and said data receiver.

20. (Currently Amended) A program storage device readable by a machine, tangibly embodying a program of instructions executable by the machine to perform a method for using a phased learning approach for determining closest of s multiple content serving sites to a fixed location in a computer network, the method including:

in a setup phase:

storing data as to transit times of each of the content serving sites in a table;

in an execution phase:

receiving a Domain Name System (DNS) request from said fixed location;

determining a response time for each of n fastest content serving sites and m other content serving sites, said n fastest content serving sites chosen by using said data and choosing the n content serving sites with lowest transit times, said m other content serving sites chosen by selecting new content serving sites as well as randomly selecting old content serving sites, wherein n is less than s ;

sending queries to each of the n fastest content serving sites and m other content serving sites, timing said queries so that they arrive at each of the n fastest content serving sites and m other content serving sites at the same time by using said response time for each of the n fastest content serving sites and m other content serving sites;

receiving data from said fixed location as to the transit times of each of the n

fastest content serving sites and m other content serving sites; and
storing said data in said table.

21. (Currently Amended) An apparatus for using a phased learning approach for determining closest of s multiple content serving sites to a fixed location in a computer network including:

means for storing data as to transit times of each of the content serving sites in a table in a setup phase;

B means for receiving a Domain Name System (DNS) request from said fixed location in an execution phase;

means for determining a response time for each of n fastest content serving sites and m other content serving sites, said n fastest content serving sites chosen by using said data and choosing the n content serving sites with lowest transit times, said m other content serving sites chosen by selecting new content serving sites as well as randomly selecting old content serving sites in an execution phase, wherein n is less than s ;

means for sending queries to each of the n fastest content serving sites and m other content serving sites, timing said queries so that they arrive at each of the n fastest content serving sites and m other content serving sites at the same time by using said response time for each of the n fastest content serving sites and m other content serving sites in an execution phase;

means for receiving data from said fixed location as to the transit times of each of the n fastest content serving sites and m other content serving sites in an execution phase; and

means for storing said data in said table in an execution phase.

22. (Previously Presented) The apparatus of claim 21, further including:
means for receiving a Domain Name System (DNS) request from said fixed location;
means for determining a response time for each of the content serving sites;
means for sending queries to each of the content serving sites, timing said queries
so that they arrive at each of the content serving sites at the same time by using said response
time for each of the content serving sites;

means for receiving data from said fixed location as to the transit times of each of
the content serving sites;

storing said data in a table;

23. (Previously Presented) The apparatus of claim 22, wherein said means for determining
the response time for each of the content serving sites includes:

means for pinging each of the content serving sites;

means for receiving a reply from each of the content serving sites; and

means for determining the response time for each of the content serving sites by
computing the difference in time from said pinging to said receiving a reply for each of the
content serving sites.

24. (Previously Presented) The apparatus of claim 21, wherein said means for determining
the response time for each of n fastest content serving sites and m other content serving sites
includes:

means for pinging each of n fastest content serving sites and m other content serving sites;

means for receiving a reply from each of n fastest content serving sites and m other content serving sites; and

means for determining the response time for each of n fastest content serving sites and m other content serving sites by computing the difference in time from said pinging to said receiving a reply for each of said n fastest content serving sites and m other content serving sites.

25. (Previously Presented) The apparatus of claim 21, wherein transit time is the time it takes a content serving site to send a packet to said fixed location after receiving a query.

26. (Original) The apparatus of claim 21, wherein said data includes at least one record, said record including a transit time, a network address for said fixed location, and a network address for a content serving site, said transit time being the transit time between said fixed location and said content serving site.

27. (Previously Presented) The apparatus of claim 22, wherein said means for sending queries to each of the content serving sites includes:

means for querying each of the content serving sites in order of their response times, longest response time first, setting a delay for a query for a particular content serving site from a time of the query to the content serving site with the longest response time as one half of said particular content serving site's response time.

28. (Original) The apparatus of claim 21, wherein said means for sending queries to each of the n fastest content serving sites and m other content serving sites includes:

means for querying each of said content serving sites n fastest content serving sites and m other content serving sites in order of their response times, longest response time first, setting a delay for a query for a particular content serving site from the time the query to said n fastest content serving site or m other content serving site with the longest response time as one half of said particular content serving site's response time.

29. (Original) The apparatus of claim 21, wherein n is 3 and m is 2.

30. (Original) The apparatus of claim 21, wherein n may be varied based on stability of the computer network.

31. (Original) The apparatus of claim 21, wherein n may be varied based on a rate of change of said content serving sites making up n content serving sites.

32. (Original) The apparatus of claim 21, wherein said setup phase occurs when the computer network is first set up.

33. (Original) The apparatus of claim 21, wherein said execution phase occurs when the computer network is operating normally.